



Dell PowerConnect W-Series 802.11n Access Point and mobility controllers product line matrix

Mobility Controller Product Line Matrix							
Easy to deploy, highly scalable, wireless mobility controllers with centralized management.							
Features	W-600 Controller Series		W-3000 Controller Series			W-6000 Controller Series	
	W-620	W-650	W-3200	W-3400	W-3600	W-6000 Chassis loaded with 4 off W-6000M3 module	W-6000 Chassis loaded with single W-6000M3 module
Target Market	Branch Offices		Medium/Large Enterprise/Campus			Headquarters/Large Campus	
Max number of LAN-connected APs per controller	8	16	32	64	128	2048	512
Max number of Remote Access Points per controller	32	64	128	256	512	4096	1024
Integrated AP	No	No	No	No	No	No	No
Max number of users per controller	256	512	2,048	4,096	8,192	32768	8192
MAC addresses	2,048	2,048	64,000	64,000	64,000	256000	54000
VLAN IP interfaces	128	128	128	256	512	5600	1400
Number of IPv4 unicast routes	2,048	2,048	2,048	2,048	2,048	8192	2048
Max auto-negotiating 10/100/1000BASE-T ports	1	6	4	4	4	0	0
Max Gigabit Ethernet ports (GBIC or SFP)	0	2	4	4	4	40 SFP / 8 XFP	10 SFP / 2 XFP
USB ports	1	4	None	None	None	None	None
ExpressCard® slot	Yes	Yes	No	No	No	No	No
Form factor/footprint	Desktop	Desktop	1RU	1RU	1RU	4RU	NA
Active firewall sessions	8,192	16,384	128,000	128,000	128,000	2,097,200	524,300
System BSSIDs	64	128	256	512	1,024	16384	4096
Concurrent IPSec tunnels	256	512	2,048	4,096	4,096	16384	4096
Firewall throughput	800 Mbps	2 Gbps	3 Gbps	4 Gbps	4 Gbps	80 Gbps	20 Gbps
Encrypted throughput (3DES, AESCBC256)	400 Mbps	1.6 Gbps	1.6 Gbps	4 Gbps	8 Gbps	32 Gbps	8 Gbps
Encrypted throughput (AES-CCM)	320 Mbps	800 Mbps	800 Mbps	2 Gbps	4 Gbps	16 Gbps	4 Gbps
Power-over-Ethernet	802.3af, PoE+	802.3af, PoE+	No	No	No	No	No
Power-over-Ethernet ports	4	4	0	0	0	0	0
Redundant Power	NA	NA	NA	NA	NA	Yes	Yes
Redundant Fans	NA	NA	NA	NA	NA	Yes	Yes
Max power consumption	115 W	126 W	35 W	45 W	60 W	1384 W	130 W
Certification	802.11 a/b/g/n FIPS/TAA certified products available						
Optics available	SFP-LX (1000Base-LX, LC connector), SFP-SX (1000Base-SX, LC Connector), SFP-TX (1000Base-T, RJ45), XFP-LR (1310nm serial pluggable XFP optic (LC) for up to 10km over SMF) and XFP-SR (850nm serial pluggable XFP optic (LC), target range 300m over MMF).						
Encryption types	WEP, TKIP, DES, AES-CCMP, 3DES, AES-CBC, xSec						
Authentication types	WPA-Enterprise, WPA-PSK, WPA2-Enterprise, WPA2-PSK, 802.1X, MAC address, captive portal						
Management capabilities	SNMP, Web, CLI using SSH, Telnet and console port						
Additional features	File server/NAS, print server		None				
Hardware warranty	1 year						
Software warranty	1 year						
Optional licenses	WIP, PEF, AWMS						
Optional Dell services	ProSupport*						

Access Point Product Line Matrix							
Model		W-AP68	W-AP92, W-AP93 and W-AP93H	W-AP104 and W-AP105	W-AP124 and W-AP125	W-AP134 and W-AP135	W-AP175
Description		Entry level 150 Mbps 802.11n access point for secure wireless mobility.	Entry level 300 Mbps 802.11n access point for secure wireless mobility. W-AP93H also includes 4 Ethernet port.	Mainstream 600 Mbps 802.11n access point for secure dual-band wireless mobility.	Mainstream 600 Mbps 802.11n access point for secure dual-band wireless mobility, with adjustable antennas to optimize coverage.	Ultra high performance 900 Mbps 802.11n access point for secure dual-band wireless mobility.	Mainstream ruggedized 600 Mbps 802.11n access point for secure dual-band wireless mobility for outdoor, warehouses and harsh environments.
Operating Mode		Campus AP, Remote AP, Mesh, Air Monitor, Spectrum Analysis					
Radios		Single Radio 2.4 GHz	Single Radio Ether 2.4 or 5GHz band 2x2 MIMO	Dual Radio Simultaneous operation in either 2.4GHz or 5GHz band. Concurrent operation of both radio in the same band is not supported. 2x2 MIMO	Dual Radio Simultaneous operation in either 2.4GHz or 5GHz band. Concurrent operation of both radio in the same band is not supported. 3x3 MIMO	Dual Radio Simultaneous operation in either 2.4GHz or 5GHz band. Concurrent operation of both radio in the same band is not supported. 3x3 MIMO	Dual Radio Simultaneous operation in either 2.4GHz or 5GHz band. Concurrent operation of both radio in the same band is not supported. 2x2 MIMO.
Data rate per radio		up to 150Mbps	up to 300Mbps	up to 300Mbps	up to 300Mbps	up to 450Mbps	up to 300Mbps
Spectrum analysis		No	Yes - Spectrum analysis (enabled with ArubaOS 6.0+) remotely scans the 2.4-GHz and 5-GHz radio bands to identify sources of RF interference. This provides visibility into non-802.11 RF interference sources and their effect on 802.11 channel quality. Monitors 4.9GHz frequency band when in dedicated Air Monitor (AM) mode.				
Certification		802.11a/b/g/n	802.11a/b/g/n, FIPS/TAA certified products available for W-AP92, W-AP93, W-AP105, W-AP124, W-AP125, W-AP134, W-AP135 and AP175 family.				
Operating frequencies		2.4-2.5 GHz	2.4-2.5 GHz, 5.150-5.950 GHz				
DFS support		Not available	Yes	Yes	Yes	Yes	Yes
Minimum Software revision		5.0.3.0	W-AP92/93: 5.0.4.2 / W-AP93H: 6.1.3.0	W-AP104: 6.1.3.0 / W-AP105: 3.4.1.0	3.3.1.9	6.1.1.0	5.0.2.1
RF management		Adaptive Radio Management (ARM) provides dynamic, application-aware channel management to maximize network capacity and ensure fairness in bandwidth availability per user. Capabilities include adaptive power and channel assignments, coordinated access to a single channel, band steering, channel load balancing, airtime fairness, airtime performance protection and coverage hole detection. In addition, spectrum analysis remotely scans the 2.4-GHz and 5-GHz radio bands to identify sources of RF interference. This provides visibility into non-802.11 RF interference sources and their effect on 802.11 channel quality.					
Antennas		W-AP68: Integral, omni directional Antenna (supports receive spatial diversity) RP-SMA interfaces for external antenna support	W-AP92: Dual RP-SMA interfaces for external dual-band antenna (supports 2x2 MIMO spatial diversity) W-AP93 and W-AP93H: Integral, Dual, Omni-directional dual-band dipole (supports 2x2 MIMO spatial diversity)	W-AP104: Dual (2x2), RP-SMA interfaces for external antenna support (supports 2x2 and below MIMO spatial diversity) W-AP125: Integral, Dual (2x2), Omni-directional Dual-Band dipole (supports 2x2 and below MIMO spatial diversity)	W-AP124: Tri (3x3), RP-SMA interfaces for external antenna support (supports 3x3 and below MIMO spatial diversity) W-AP125: Integral, Tri (3x3), Omni-directional Dual-Band dipole (supports 3x3 and below MIMO spatial diversity)	W-AP134: Tri (3x3), RP-SMA interfaces for external antenna support (supports 3x3 and below MIMO spatial diversity) W-AP135: Integral, six internal downtilt omni-directional antennas. (supports 3x3 and below MIMO spatial diversity)	W-AP175P: (PoE Powered) W-AP175AC: (AC Powered, PoE out) W-AP175DC: (DC Powered, PoE out) All three model has four N-type interfaces (two per band) for external 2.4GHz and 5GHz antennas (supports 2x2 and below MIMO spatial diversity)
Network interfaces		1x10/100BASE-T Ethernet (RJ-45), Auto-sensing link speed and MDI/MDX	1x10/100/1000BASE-T Ethernet (RJ-45), Auto-sensing link speed and MDI/MDX	1x10/100/1000BASE-T Ethernet (RJ45), Auto-sensing link speed and MDI/MDX	2x100/1000BASE-T Ethernet (RJ45) Auto-sensing link speed and MDI/MDX	2x100/1000BASE-T Ethernet (RJ45) Auto-sensing link speed and MDI/MDX. Supports MACSec Encryption, 802.3az (EEE)	1x10/100/1000BASE-T Ethernet (RJ45), Auto-sensing link speed and MDI/MDX
Other interfaces		Console interface (RJ45)	W-AP92 and W-AP93: Console interface (RJ45) W-AP93H: 4 Ethernet Port	Console interface (RJ45)	Console interface (RJ45)	Console interface (RJ45)	Console interface (RJ45)
Power over Ethernet (PoE) interfaces		48 V DC 802.3af PoE compliant	48 V DC 802.3af PoE or 802.3at PoE+ compliant	48 V DC 802.3af PoE or 802.3at PoE+ compliant	48 V DC 802.3af PoE or 802.3at PoE+ compliant. Interoperable with intelli-source PSE sourcing intelligence (both ports).	48 V DC 802.3af PoE or 802.3at if both Ethernet ports are used PoE+ compliant. Interoperable with intelli-source PSE sourcing intelligence (both ports).	W-AP175P: 802.3at compliant PoE input (PD) W-AP175AC and W-AP175DC: 802.3af compliant PoE output (PSE)
DC power interfaces		12 V, 1.25A	12 V, 1.25 A	12 V, 1.25 A	5 V, 3.2 A	12 V, 1.25 A	W-AP175DC: 12-48V
AC Power Interfaces		Not applicable					W-AP175AC: 100-240V
Power consumption		8 watts (maximum)	10 watts (maximum)	12.5 watts (maximum)	16 watts (maximum)	15 watts (maximum)	W-AP175DC: 18W (maximum). Does not include power supplied to PoE connected devices.
Environmental	Class	Indoor	Indoor, plenum-rated	Indoor, plenum-rated	Indoor, plenum-rated	Indoor, plenum-rated	Outdoor
	Operating temperature	0° C to +40° C (+32° F to +104° F)	0° C to +50° C (+32° F to +122° F)	0° C to +50° C (+32° F to +122° F)	0° C to +50° C (+32° F to +122° F)	0° C to +50° C (+32° F to +122° F)	W-AP175P: -30C to +60C (-22F to +140F) W-AP175AC and W-AP175DC: -40C to +55C (-40F to +131F)
Accessories		None	Wall mount bracket, ceiling tile rail adapter, attachable antennas (See-Dell PowerConnect W-Series Antenna Matrix) and AC power Adapters				
Hardware Warranty		One Year	Extended Life Time Warranty For more info see: www.Dell.com/warranty				

*Availability and terms of Dell Services vary by region. For more information, visit www.dell.com/servicedescriptions.
© 2012 Dell Inc. All rights reserved. Dell, the DELL logo, the DELL badge and PowerConnect are trademarks of Dell Inc. Other trademarks and trade names may be used in this document to refer to either the entities claiming the marks and names or their products. Dell disclaims proprietary interest in the marks and names of others. This document is for informational purposes only. Dell reserves the right to make changes without further notice to the products herein. The content provided is as-is and without expressed or implied warranties of any kind.

Learn more at Dell.com/Wireless

